Maryland Historical Trust

Maryland Inventory of Historic Name: MD 28 000								
The bridge referenced herein was of the Historic Bridge Inventory February 2001. The Trust accept received the following determinations.	, and SHA provided the sted the Historic Bridg	e Trust w	ith eligib	ility d	letern	ninati	ons in	1
	MARYLAND HISTO	RICAL T	RUST				 	
Eligibility RecommendedX				ot Re	comm	ended		
Criteria:ABC _								
Comments								_
Reviewer, OPS:Anne E. Bruder Date:3 April 2001								
Reviewer, NR Program: Peter E. Kurtze			Date: 3 April 2001					

Maryland Inventory of Historic Properties Historic Bridge Inventory Maryland State Highway Administration Maryland Historical Trust

SHA Bridge No. 15002 Name: MD 28 over Seneca Creek

<u>Location:</u> Street/Road Name and Number: <u>MD 28 (Darnestown Road)</u>
City/Town: Dawsonville Vicinity X
County: Montgomery
Ownership: X_State_County_Municipal_Other
This bridge projects over:RoadRailway_X_WaterLand
Is the bridge located within a designated district: _yes X no
_NR listed district_NR determined eligible district _locally designated_other Name of District
Bridge Type:
Timber BridgeBeam BridgeTruss-CoveredTrestleTimber-and-Concrete
_Stone Arch
_Metal Truss
_Movable Bridge _Swing _Bascule Single Leaf_Bascule Multiple Leaf _Vertical Lift_Retractile_Pontoon
Metal GirderRolled GirderRolled Girder Concrete EncasedPlate GirderPlate Girder Concrete Encased
_Metal Suspension
_Metal Arch
_Metal Cantilever
X_Concrete X_Concrete Arch _Concrete Slab_Concrete Beam Rigid Frame
Other Type Name

Describe Setting:

Bridge 15002 carries MD 28 over Seneca Creek in Montgomery County. MD 28 runs east-west over the northern flowing Seneca Creek. The area immediately adjacent to the bridge has no residential development. The bridge is located in Seneca Creek State Park.

Describe Superstructure and Substructure:

Bridge 15002 is a double-span filled spandrel concrete arch bridge. The length of the bridge is 116 feet. The individual spans have a clear span of 46 feet. The bridge has a rise of 5.5 feet from the springline to the crown. The rise to run ration is 13 percent. The spandrel walls are approximately 13 feet high and 22 feet wide. The pier is approximately 13 feet by 6 feet by 24 feet. There is a clear roadway width of 24 feet, with an overall length of 27 feet 4 inches. According to a 1997 inspection report, the bridge is in satisfactory condition with a sufficiency rating of 52.

The underside of span #1 of the arch has small areas of honeycombing and spalling with rusted, exposed reinforcement bars and fine longitudinal cracks with efflorescence and rust staining along the south edge at the spandrel wall joint. The underside of span #2 has small random areas of honeycombing and spalling, with exposed reinforcement bars and concrete deterioration along the construction joint with the northern spandrel arch. The arch also has efflorescence from the centerline cold joint at the abutment. There is some heavy concrete erosion under weepholes. The face of the pier has heavy erosion at and below the waterline, which exposes the aggregate. Both ends of the piers have spalling with rusted reinforcement bars exposed at the bottom of the spandrel walls and the western face on the south end. The faces of the spandrel wall have fine horizontal cracks and irregular cracks with efflorescence and some exudation. There are also some light random cracks and discoloration. The bottom edge of the spandrel walls have light scaling, fine longitudinal cracks and heavy efflorescence and rust staining coming from the construction joint with the arch barrel. The northern wall in span #2 has a large spall on the bottom at the pier and areas of honeycombing on the bottom of the wall.

The parapets are original. The builders used a closed parapet design that consists of panels securely fastened by dowels to the structure. The parapets are 118 feet on both sides of the bridge. Each endblock has an incised panel measuring approximately 1 foot by 5 feet. The parapets have fine vertical and map cracking. The exterior faces have small popouts from the guardrail placement. Both walls have heavy scaling on the inside faces with aggregate exposed and light scaling on the outside faces. The south wall over the pier also has a small spall with rusted reinforcement bars exposed. Both sets of endblocks are misaligned at the construction joints.

Discuss Major Alterations:

There has been minor patching on the exterior and interiors of the parapet, however, there have been no major alterations to this bridge.

When Built: 1923

Why Built: Improvement of lateral corridors

Who Built: State Roads Commission
Who Designed: State Roads Commission

Why Altered: N/A

Was this bridge built as part of an organized bridge building campaign? No, this bridge was not built as part of an organized bridge building campaign.

Surveyor Analysis:

This bridge may have NR significance for association with:

XA Events _Person

X C Engineering/Architectural

This bridge was determined eligible by the Interagency Review Committee in March 1996.

Was this bridge constructed in response to significant events in Maryland or local history?

In 1920 the Maryland State Legislature enacted the "Lateral and Post Roads Loan of 1920". The Act that created this loan mandated that the proceeds were to be used for the construction of rural post roads, lateral roads and the extension of the State Roads System, with the assistance of funds from the federal government and several counties in the State. Half of the loan was used for the construction of lateral roads. This money was apportioned to the counties on the basis of actual road mileage. The counties then matched the State's money by bond issues, special assessments, or other revenue.

Between 1920 and 1923 there were 16 miles of roads built. Included in this mileage was 1.3 miles of concrete from Dawsonville towards Seneca. Part of this construction included the construction of Bridge 15002.

Is the bridge located in an area that may be eligible for historic designation and would the bridge add to or detract from historic and visual character of the possible district?

No, this bridge is not located in an area that is eligible for historic designation.

Is the bridge a significant example of its type?

Yes, this bridge is a significant example of its type. This bridge represents the State Roads Commission's efforts at standardization and unification of the county and state roads throughout the state's road system.

Does the bridge retain integrity of the important elements described in the Context Addendum?

Yes, this bridge retains integrity of its character defining elements. The arch, spandrel walls, abutments, wingwalls, and parapets are original and intact.

Is this bridge a significant example of the work of the manufacturer, designer and/or engineer?

Yes, this bridge is a significant example of the work of the State Roads Commission in the 1920s.

Should this bridge be given further study before significance analysis is made and why?

No, this bridge should not be given further study.

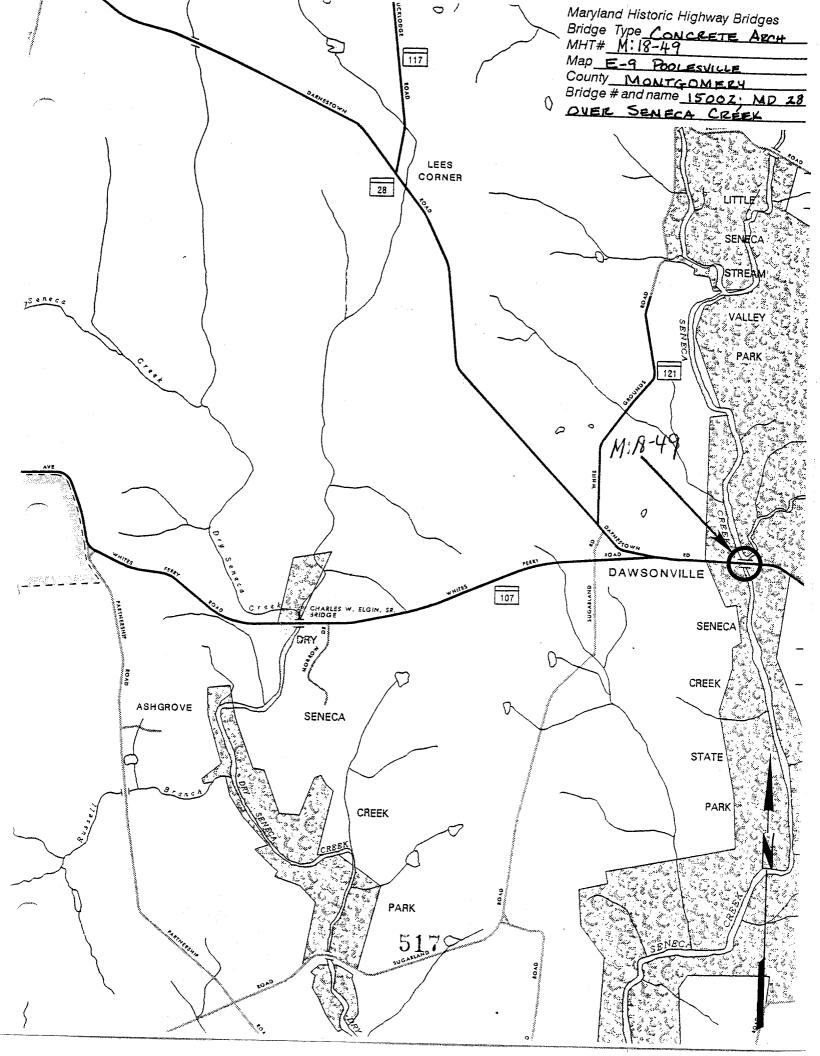
Bibliography: County inspection/bridge files Other (list):	SHA inspection/bridge files	X	-

Surveyor:

Name: Stacie Y. Webb Date: March 1996

Organization: State Highway Admin. Telephone: (410) 545-8559

Address: 707 N. Calvert Street, Baltimore, Maryland Edited by P.A.C. Spero & Company, December 1997





Inventory	#	M:18-49
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Name 15002 - MD 28 OVER SENECA CREEK County/State Montgomery MD Name of Photographer FRANK JULIANO Date 2 95
Location of Negative SHA
Description APPROACH EAST
Number of 36



Inventory #
Name 15002 - MO 28 OVER SENECA CREEK County/State Montoomery Imp Name of Photographer Frank Juliano
Date 2 95
Location of Negative SHR
Description PROROACH WEST
2 4
2 4 Number 2 of 3 6

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Name 15002 - MD 28 OVER SENEUD CREEK County/State Montgomery / MD Name of Photographer FRANK JULIANO Date 2 95
Location of Negative SHA
Description ELEMATION SOUTH
Number of 36

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Inventory #M:18-49
Name 1500 Z - MD ZE OVER SENECA CREEK
County/State Montcomery Imb
Name of Photographer FRANK JULIANO
Date 2 95
Location of Negative $ \leq \mu \ rac{rac{rac{rac{rac{rac{rac{rac{rac{rac{$
Description EVEVATION NORTH

4 4 Number 2 of 30

CAPSULE SUMMARY MD 28 over Seneca Creek (M:18-49)

Bridge No. 15002 is a double-span, filled spandrel, concrete arch bridge that runs east-west over Seneca Creek, in Seneca Creek State Park. Maryland Department of Transportation Bridge No. 15002 is located along MD 28, also known as Darnestown Road. Darnestown Road is a two-lane road, and likewise, the bridge is two lanes wide, supporting one lane of traffic in each direction. No pedestrian traffic is accommodated by the span.

The double span, filled spandrel, concrete arch bridge remains much the same as when it was constructed in 1923, retaining its original arches, wingwalls, abutments, and parapets. The decorative elements of the bridge are confined to the parapet walls. A closed parapet design was used, consisting of panels securely fastened by dowels to the structure. The parapet wall is incised with an alternating square and rectangular pattern. Each endblock has an incised panel measuring one foot by five feet. The central panel, situated directly above the pier, projects slightly from the exterior wall. The parapets are 118 feet in length on both sides of the bridge and are constructed of a medium-sized concrete aggregate. Topping the parapet walls is a medium-sized aggregate concrete slab railing.

Bridge No. 15002 over Seneca Creek was constructed at a key point in the history of road building in Maryland. During the 1920's, Maryland was considered to be 'the best-roaded state in the nation.' and the Maryland State Legislature enacted the "Lateral and Post Roads Loan of 1920." As many of the primary roads had already been constructed by this time, attention was focused on building the secondary road system for the state, including the farm-to-market network of feeder highways. Additionally, funds were appropriated for improving bridges and replacing one-way spans with two-lane bridges. Included in this building campaign was the 1.3 miles of concrete road laid from Dawsonville toward Seneca. Bridge 15002 was a part of this stretch of construction along Darnestown Road (MD 28).

Bridge No. 15002 over Seneca Creek stands as an example of the concrete arch bridge form that was being built in plentitude in Maryland in the early part of the twentieth century. Like other arch bridges of concrete construction, it displays graceful arches and a simply ornamented parapet. Representative of the road and bridge building campaigns for which Maryland was renowned in the 1920's, the bridge and associated roadway were rebuilt in 1923 as part of an effort to improve the secondary road system in the state.

MARYLAND HISTORICAL TRUST MD INVENTORY OF HISTORIC PROPERTIES	Inventory No. <u>M:18-49</u>
1. Name of Property	
historic namecommon/other name MD 28 over Seneca Cree	ek: Bridge 15002
2. Location	
street & number <u>Darnestown Road (MD 28)</u> city or town <u>Dawsonville</u> vicinity <u>st</u> county <u>Montgomery</u> code <u>031</u> zip code	_ not for publication _ ate Maryland code MD
3. State/Federal Agency Certification	N/A ====================================
4. National Park Service Certification	N/A
======================================	=======================================
Ownership of Property (Check all that applements) —— private —— public-local —— X public-State —— public-Federal	z======== Ly)
Category of Property (Check only one box) building(s) district site X structure object	
	uildings tes tructures ojects otal
Is this property listed in the National Reverse Name of Listing	egister?

Inventory No. M:18-49
Page 2

6. Function	
Historic Ft	inctions (Enter categories from instructions) TRANSPORTATION Sub: Bridge
Curren Cat: _ -	nt Functions (Enter categories from instructions) TRANSPORTATION Sub: Bridge
7. Descript ====================================	cion ====================================
Materials foundaroof walls other	

See Continuation Sheet No. 7-1

Narrative Description (Describe the historic and current condition of the property.)

MARYLAND INVENTORY OF HISTORIC PROPERTIES CONTINUATION SHEET

Inventory No. M:18-49

Section _7__ Page 1

Maryland 28 over Seneca Creek name of property Montgomery County, MD county and state

Bridge No. 15002 is a double-span, filled spandrel, concrete arch bridge running east-west over Seneca Creek, in Seneca Creek State The bridge was erected in 1923 along MD 28, also known as Darnestown Road. The deck arch bridge over Seneca Creek carries the roadway above the structure's arch. Darnestown Road is a twolane road, supporting one lane of traffic in each direction. pedestrian traffic is accommodated by the span.

The bridge spans Seneca Creek with an overall length of nearly 116 feet, with the individual spans having a clear span of 46 feet. The spandrel walls measure approximately 13 feet high and 22 feet wide, with the central pier measuring 13 feet by 6 feet by 24 feet. The clear roadway is 24 feet in width, with an overall length of 27 feet 4 inches.

The double span, filled spandrel, concrete arch bridge remains much the same as when it was constructed in 1923, retaining its original arches, wingwalls, abutments, and parapets. The decorative elements of the bridge are confined to the parapet walls. A closed parapet design was used, consisting of panels securely fastened by dowels to the structure. The parapet wall is incised with an alternating square and rectangular pattern. Each endblock has an incised panel measuring one foot by five feet. The central panel, situated directly above the pier, projects slightly from the exterior wall. The parapets are 118 feet in length on both sides of the bridge and are constructed of a medium-sized concrete aggregate. Topping the parapet walls is a medium-sized aggregate concrete slab railing.

There are two bronze plaques located on the central panels of the interior walls of the parapet. The plaque on the north side states, Seneca Creek Bridge, Built 1923, State Roads Commission, John N. Mackall Chairman & Chief Engr., Omar D. Grothers, D.C. Winebrener, L. H. Steuart Secty., W. F. Childs, Jr. Dist. Engr. The plaque on the south wall of the parapet reads, The Concrete Steel Bridge Co., Contractors, Clarksburg, and W. VA.

There is a smooth transition from the abutments to the earth-filled spandrel walls. The wingwalls, abutments and arches have flat concrete surfaces that are devoid of decoration. The two shallow arches have 46-foot springlines, with 5.5-foot springline to crown.

The substructure of the concrete arch bridge includes the central, supporting pier. The concrete pier divides the two arches and is slightly projecting from the exterior walls of the bridge.

MARYLAND INVENTORY OF HISTORIC PROPERTIES CONTINUATION SHEET

Inventory No. M:18-49

Section 7 Page 2 Maryland 28 over Seneca Creek name of property

Montgomery County, MD county and state

A one-and-a-half story pumping station, constructed in two stages in the 1960's, sits on the west bank, to the south of the bridge. Set on a concrete foundation, the brick pump house has a flat roof with a skylight. It is adorned with molded brick corners with concrete quoins at the top of each. A wood frame deck is affixed to the north elevation and leads to the single, metal door. Containing seven pumps, the station pumps water to the Seneca Wastewater Treatment Plant and the treatment plant in Blue Plains. The pumping station, while located within Seneca Creek State Park, is owned and operated by the Washington Suburban Sanitary Commission.

While the original substructure and superstructure of the crossing place, the bridge displays numerous elements deterioration. The underside of span #1 of the arch has small areas of honeycombing and spalling with rusted, exposed reinforcement bars and fine longitudinal cracks with efflorescence and rust staining along the south edge at the spandrel wall joint. underside of span #2 has small random areas of honeycombing and with exposed reinforcement bars and deterioration along the construction joint with the northern spandrel arch. The arch also has efflorescence from the centerline cold joint at the abutment. There is some heavy concrete erosion under weepholes.

The face of the pier has heavy erosion at and below the waterline, which exposes the aggregate. Both ends of the piers have spalling with rusted reinforcement bars exposed at the bottom of the spandrel walls and the western face on the south end. The pier also has scour marks along the full length of the west side, along one foot of the south end and along three feet six inches of the north end. The eroded concrete surfaces are routinely monitored and change slightly with each inspection. The north end of the pier has accumulated a large buildup of branches and debris, causing the majority of the creek to flow through span #1 of the bridge.

The faces of the wingwall have fine horizontal cracks and irregular cracks with efflorescence and some exudation. There are also some light random cracks and discoloration. The bottom edge of the spandrel walls have light scaling, fine longitudinal cracks and heavy efflorescence and rust staining coming from the construction joint with the arch barrel. The northern wall in span #2 has a large spall on the bottom at the pier and areas of honeycombing on the bottom of the wall.

MARYLAND INVENTORY OF HISTORIC PROPERTIES CONTINUATION SHEET

Inventory No. M:18-49

Section 7 Page 3 Maryland 28 over Seneca Creek name of property

Montgomery County, MD county and state

The parapets have fine vertical and map cracking. The exterior faces have small popouts from the guardrail placement. Both walls have heavy scaling on the inside faces with aggregate exposed and light scaling on the outside faces. The south wall over the pier also has a small spall with rusted reinforcement bars exposed. Both sets of endblocks are misaligned at the construction joints.

Although there have been no major alterations, the parapet has received minor patches on both its interior and exterior walls. Additionally, the bridge has been monitored closely for movement of the spandrel walls due to frequent flooding of the western roadway approach.

As part of the 1.3 mile road built from Dawsonville towards Seneca in the early 1920's, the two-lane approach is paved with concrete. The road surface of the western approach is uneven and shows signs of heavy deterioration and general pavement failure in both curblines. Metal guardrails along each side of the road are in good condition. To each side of the bridge, there are signs indicating that it is a flood area.

The land immediately adjacent to the bridge slopes gently down to the water on both sides of Seneca Creek. Surrounded by farmland and park, the bridge is situated in a predominantly rural area, in Seneca Creek State Park. The brick pumping station on the west bank and a concrete abutment on the north side of the west abutment are the only structures immediately surrounding the bridge. The concrete abutment offers evidence of an earlier crossing over Seneca Creek at this site. The bridge over Seneca Creek is situated to the west of the Dawsonville Historic District, which is listed on the State Register of Historic Places with the Maryland Historical Trust.

Inventory No. M:18-49
Page 3

8. Statement of Significance		
Applicable Nat boxes for the Register listin	ional Register Criteria (Mark "x" in one or more criteria qualifying the property for National	
_X A	Property is associated with events that have made a significant contribution to the broad patterns of our history.	
В	Property is associated with the lives of persons significant in our past.	
_X C	Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.	
D	Property has yielded, or is likely to yield information important in prehistory or history.	
Criteria Consid	derations (Mark "X" in all the boxes that apply.)	
A	owned by a religious institution or used for religious purposes.	
В	removed from its original location.	
C	a birthplace or a grave.	
D	a cemetery.	
E	a reconstructed building, object, or structure.	
F	a commemorative property.	
G	less than 50 years of age or achieved significance within the past 50 years.	

Inventory No. M:18-49
Page 4

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<u></u> T	e (Enter categories from in ransportation ngineering	
Period of Significan	ce <u>1923</u>	
Significant Dates <u>1</u>	923	The second secon
Significant Person	(Complete if Criterion B is	s marked above)
Cultural Affiliation	Undefined	· · · · · · · · · · · · · · · · · · ·
Architect/Builder _M	aryland State Roads Commis	sion
Narrative Statement the property.)	of Significance (Explain t	the significance of

See Continuation Sheet No. 8-1

MARYYLAND INVENTORY OF HISTORIC PROPERTIES CONTINUATION SHEET

Inventory No.M:18-49

Section 8 Page 1

Maryland 28 over Seneca Creek name of property Montgomery County, MD county and state ______

Maryland Department of Transportation Bridge No. 15002 is located along MD 28, also known as Darnestown Road. It spans Seneca Creek in Seneca Creek State Park, near Dawsonville in Montgomery County. This is one of a number of double span, filled spandrel, concrete arch bridges built in Maryland in the second decade of the twentieth century. The use of concrete as a building material dates back to the ancient Romans. However, its popularity as a common building material is a nineteenth century phenomenon, with the widespread use of reinforced concrete being a late nineteenth and early twentieth century development. In bridge construction, concrete was originally utilized for plain or unreinforced structures, and particularly in arch bridges, which were built in large numbers throughout the United States during the early years of the nation.

In the late nineteenth century, developments were made in the construction of concrete arch bridges with the introduction of reinforced concrete. There are four types of concrete arch bridges, classified by the way in which the load is carried. These four types are filled spandrel, closed spandrel, open spandrel, and through arches. The filled spandrel arch, as seen at Seneca Creek, consists of a barrel arch carrying filling materials, which are contained in longitudinal walls which act as retaining walls.1

Spero quotes bridge engineer Daniel B. Luten as stating that, the most beautiful and appropriate applications of concrete to bridges, that is in the arch form, is also the most satisfactory from almost every engineering standpoint. The first known concrete arch bridge in the United States was constructed in 1889. Designed by Ernest Ransome, the bridge in Golden Gate Park in San Francisco was reinforced with rods or bars and scored to look like stone.2

Luten was highly instrumental in the development of the concrete arch bridge, receiving over thirty patents for his designs. Additionally, he published catalogs from his bridge company, which advertised a variety of earth-filled arch bridges of reinforced concrete construction. Luten claimed in his catalog that, to build a concrete bridge then, is just plain common sense ... the concrete

¹ P.A.C. Spero, Historic Highway Bridges in Maryland: 1631-1960: Historic Context Report. July 1995 (Revised October 1995), 157. 2 Ibid., 157-159.

Inventory No.M:18-49

Section <u>8</u> Page 2

Maryland 28 over Seneca Creek
name of property
Montgomery County, MD
county and state

arch harmonizes readily with its surroundings and if well designed is an attractive structure for any location. The gracefully arching Seneca Creek bridge is a simply ornamented man-made structure that, like many of Luten's designs, is in harmony with its surroundings.

Luten arch bridges known to have been built in Maryland often feature curved, simply ornamented solid parapets. Characterized by the graceful arch and the curved, incised solid parapets, this bridge was described in Luten Company catalogs as Highway Bridge of Plain Design. The gracefully curved arches and ornamented concrete parapets reflected the ideals of the City Beautiful Movement. Two Luten bridges of similar design were built in the Piedmont Region of Maryland, one being the Blair Bridge over the Potomac, built in 1910, and the other being the Frederick Road Bridge in Ellicott City, which was constructed in 1915. Both of these bridges are single span concrete arch bridges that are decorated in a similar manner to the one over Seneca Creek, with rectangular panels incised on closed parapet walls. While Luten did not design the bridge over Seneca Creek, his influence is clearly seen. Similar to Luten bridges in the near vicinity, Bridge No. 15002 has a simple, closed parapet design. The simply ornamented parapet wall consists of alternating square and rectangular panels incised in the concrete.

The bridge over Seneca Creek was constructed at a key point in the history of road building in Maryland. During the 1920's, Maryland was considered to be the best-roaded state in the nation. As many of the primary roads had already been constructed by this time, attention was focused on building the secondary road system for the state, including the farm-to-market network of feeder highways. 5 In 1920, the Maryland State Legislature enacted the Lateral and Post Roads Loan of 1920. The Act that created this loan mandated that the proceeds were to be used for the construction of rural post roads, lateral roads and the extension of the State Roads System, with the assistance of funds from the federal government and several counties in the State. Additionally, funds were appropriated for improving bridge building and replacing one-way spans with two lane bridges. This money was apportioned to the

³ Daniel B. Luten. Reinforced Concrete Bridges of Luten Design (Indianapolis: The Hollenbeck Press, 1917), 45.

⁴ Spero, 159.

⁵ Charles T. Le Viness, A History of Road Building in Maryland (Baltimore: Maryland State Roads Commission, 1958), 69.

Inventory No.M:18-49

Section 8 Page 3

Maryland 28 over Seneca Creek
name of property
Montgomery County, MD
county and state

counties on the basis of actual road mileage. The counties then matched the State's money by bond issues, special assessments, or other revenue.

In addition to the extensive construction of roads in the 1920's, the bridge system was reappraised. Like the roads, the bridges were found to be both too narrow and too weak for the everincreasing traffic. After realizing the deficiency in the bridges for the greatly increased number of roadways, the Maryland State Roads Commission created a separate department to direct bridge construction. The Bridge Division has been responsible for designing and supervising the construction of all water crossings, since its creation in 1920. Built in 1923, Bridge No. 15002 over Seneca Creek fell under the jurisdiction of the newly created department. There are only ten bridges dating from the 1920's that remain intact in Montgomery County, and, of these ten, only two are concrete arch bridges.

Between 1920 and 1930, 1200 miles of hard-surfaced roads were laid in Maryland, much of which was represented by the laying of local roads. Included in this building campaign was the 1.3 miles of concrete road laid from Dawsonville toward Seneca. Bridge 15002, a part of this stretch of construction along Darnestown Road (MD 28), replaced an earlier bridge at this crossing of Seneca Creek. On June 22, 1923, the State Roads Commission submitted a notice to contractors to the Montgomery County Sentinel. It called for, sealed proposals for building the following bridge Montgomery County, Contract M-18 - Reinforced concrete arch bridge over Seneca Creek, near Dawsonville, on the road to Dawsonville, consisting of a double span, each 46 feet clear and a 24 feet clear roadway. Proposals were to be submitted to John N. Mackall, Chairman and L. H. Steuart, Secretary of the State Roads Commission. They were due by noon on June 26, 1923 in Baltimore. This new bridge would replace the earlier one at the site. According to maps of Dawsonville and Montgomery County, a bridge existed at this location as early as 1795.

⁶ Le Viness, p. 129.

⁷ Ibid., 101.

⁸ Montgomery County (MD) Sentinel. 22 June 1923, p.3.

^{9 1795} Map of Montgomery County. Montgomery County Historical Society Library, Rockville, Maryland.

Inventory No.M:18-49

Section 8 Page 4

Maryland 28 over Seneca Creek
name of property
Montgomery County, MD
county and state

A bridge was constructed to cross Seneca Creek as early as 1795, allowing local farmers access to the mill on Seneca Creek and passage from the community of Dawsonville. Dawsonville is a small farming community located to the west of the bridge. Thomas Dawson, for whom the town is named, settled Dawsonville in the The farming community utilized the bridge to reach the business center at Seneca. Dawsonville farms primarily produced wheat, corn, oats, potatoes, and tobacco. Farmers took their grain to the mill on Seneca Creek and then shipped their goods to market on the Chesapeake and Ohio Canal. The C & O Canal in Seneca was completed in 1830 and reached its peak in 1871, when over 850,000 tons were transported. Furthermore, the Metropolitan line of the Baltimore and Ohio Railroad was laid through Seneca in 1873.11 The nearby Boyd's Station provided access to the B & O Railroad. Both the canal and the railroad drew farmers from the surrounding community to Seneca. The residents of nearby Dawsonville, traveling over the previous crossing at Seneca Creek, likely utilized the port town to ship their goods to market and to travel to other parts of the country.

Seneca was originally a farming community in which tobacco and grains were important crops. Additionally, apple and peach orchards were planted in the rich soil. The availability of waterpower from the many streams made possible the development of a number of grist mills in the area. Seneca is also known for its stone cutting mill. Seneca sandstone was shipped down the canal to Washington and was used to construct such buildings as the Old Smithsonian Institution and the Corcoran Art Gallery. In the 1830's, Seneca became a business center for the canallers, the quarrymen, and the farmers who brought their grain to the tall mill on Seneca Creek and their tobacco to the canal boats on the way to Georgetown. Seneca continued to flourish and was an active, industrial town from the 1870's to the 1890's.

The bridge over Seneca Creek spans the Great Seneca Creek. From

¹⁰ Jane C. Sween. A History of Dawsonville and Seneca; Montgomery County, Maryland. (Bethesda, MD: written 1967, revised 1993).

¹¹ P. Peregoy, L. Tublio, and T. Leahy. The Progression of Seneca: 17th - 19th Century. (Maryland: April 9, 1976), p.4 (Vertical Files at Seneca Creek State Park).

¹² Seneca Creek State Park (Pamphlet at Seneca Creek State Park).

¹³ Peregoy, et al., p. 4.

MARYYLAND INVENTORY OF HISTORIC PROPERTIES CONTINUATION SHEET

Inventory No.M:18-49

Section 8 Page 5

Maryland 28 over Seneca Creek
name of property
Montgomery County, MD
county and state

its headwaters north of Gaithersburg, Maryland, the creek snakes through a narrow stream valley, passing through fields, dense woods and rock outcroppings. Many small streams join Great Seneca Creek as it winds its way through western Montgomery County towards its confluence with the Potomac River at the town of Seneca. As early as 1795, a bridge crossed Great Seneca Creek at Darnestown Road. The eighteenth-century bridge was replaced by a later bridge which is evident on a 1910 map of Montgomery County. The remaining fragments of concrete abutment on the north side of the west abutment are evidence of the previous bridge at this crossing. This bridge was replaced in 1923 by the current span over Seneca Creek.

Bridge No. 15002 over Seneca Creek stands as an example of the concrete arch bridge form that was being built in plentitude in Maryland in the early part of the twentieth century. Like other arch bridges of concrete construction, it displays graceful arches and a simply ornamented parapet. Representative of the road and bridge building campaigns for which Maryland was renowned in the 1920's, the bridge and associated roadway were rebuilt in 1923 as part of an effort to improve the secondary road system in the state.

¹⁴ Ibid.

^{15 1795} Map of Montgomery County.

MARYYLAND INVENTORY OF HISTORIC PROPERTIES CONTINUATION SHEET

Inventory No.M:18-49

Section <u>8</u>	Page <u>6</u>	Maryland 28 over Seneca Creek
		name of property Montgomery County, MD
		county and state

National Register Evaluation:

Constructed in 1923, the bridge over Seneca Creek in Montgomery County is eligible for the National Register of Historic Places.

Bridge 15002 does not meet the National Register Criteria B or D. Preliminary research has not revealed any association between the bridge and the lives of persons significant in our past (Criterion B). Furthermore, there is no evidence that the bridge is likely to yield information important in history or prehistory (Criterion D).

However, based on Criterion A, the bridge, which is representative of those bridges and roads constructed as part of the Lateral and Post Roads Loan of 1920, is eligible for listing on the National Register. Under the Lateral and Post Roads Loan of 1920, the bridge over Seneca Creek was rebuilt as part of an effort to improve the secondary road system in the state of Maryland. Furthermore, it is also eligible under Criterion C, as it embodies the distinctive characteristics of a type, period, and method of construction. Bridge No. 15002, with its graceful arches and simply ornamented parapet wall, strongly reflects the concrete arch trend in bridge design and its widespread use in the early part of the twentieth century. Based on both Criteria A and C, the bridge is National Register-eligible.

MARYLAND HISTORICAL TRUST
Eligibility recommended Not Recommended
COMMENTS: LETER MINED ELIGIBLE BY INTERROPPELL FRINGE COMMITTEE IN MARCH 1996, WEN CONTINUE TO NGREE
Review, OPS: Alle B. M. Date: 12/14/98 Reviewer, NR Program: Blutte Date: 12/14/98

ang

Inventory No. M:18-49 Page 5

9. Major Bibliographical References

(Cite the books, articles, legal records, and other sources used in preparing this form.)

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Montgomery County Sentinel. 22 June 1923, Vol. LXVIII, No. 4.

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Inventory No. M:18-49
Page 6

P.A.C. Spero & Company and Louis Berger & Associates. Historic Highway Bridges in Maryland: 1631-1960, Historic Context Report, July 1995 (Revised October 1995).

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Maryland Inventory of Historic Properties Maryland 28 over Seneca Creek Darnestown Road Montgomery County, MD	Inventory No. M:18-49 Page 7
======================================	
Acreage of Property <u>less than one acre</u>	=======================================
Verbal Boundary Description (Describe property.)	the boundaries of the
Located along Darnestown Road (MD 28), northerly flowing Seneca Creek in an east-Creek is located within the Seneca C Dawsonville, in Montgomery County.	-west direction Seneca
Boundary Justification (Explain why the bo	undaries were selected.)
The bridge has spanned this portion of construction in 1923.	Seneca Creek since its
======================================	
name/title Laura V. Trieschmann, Archite organization EHT Traceries, Inc. street & number _5420 Western Avenue city or town _Chevy Chase st	ctural Historian date _August 14, 1998 telephone 301/656-5283 ate _MD zip code 20815
12. Property Owner	
name_State of Maryland street & number st	telephone

Inventory No. M:18-49

Maryland 28 over Seneca Creek

name of property

Montgomery County, MD

county and state

MARYLAND INVENTORY OF HISTORIC PROPERTIES

Geographic Organization:

Piedmont

Chronological/Development Period (s):

Industrial/Urban Dominance (1870-1930)

Prehistoric/Historic Period Theme (s):

Architecture, Landscape Architecture, and

Community Planning

Transportation

RESOURCE TYPE (S)

Category:

Structure

Historic Environment:

Rural

Historic Function (s):

TRANSPORTATION/Bridge

Known Design Source:

Maryland State Roads Commission

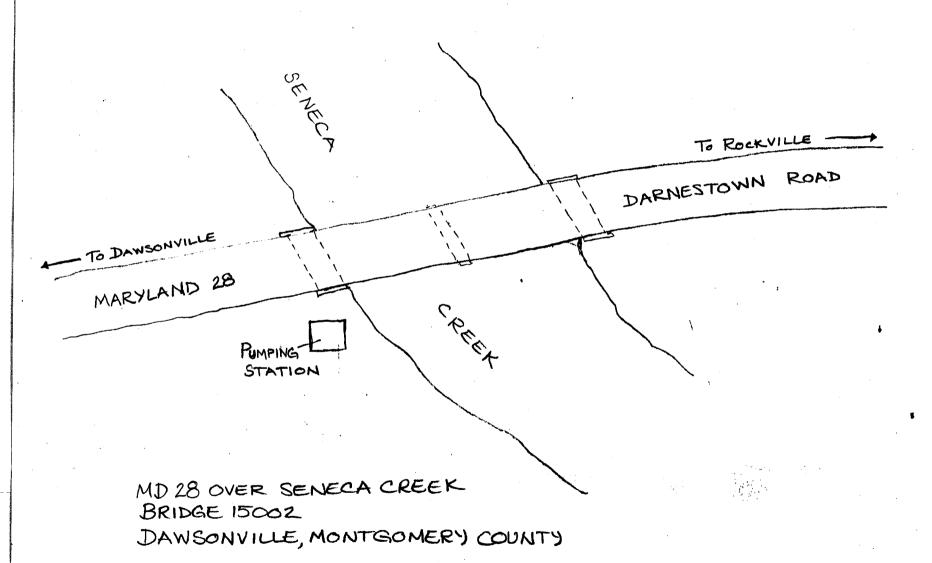
MARYLAND	INVENTORY	OF	HISTORIC	PROPERTIES
CONTINUAT	TON SHEET			

Inventory No. M:18-49

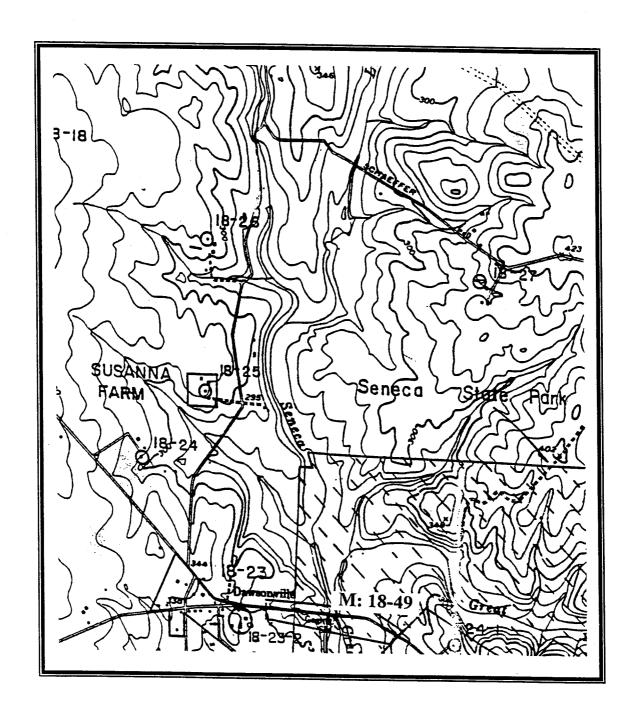
Maryland 28	3 over Seneca Creek
name of pro	
	County, MD
county and	state

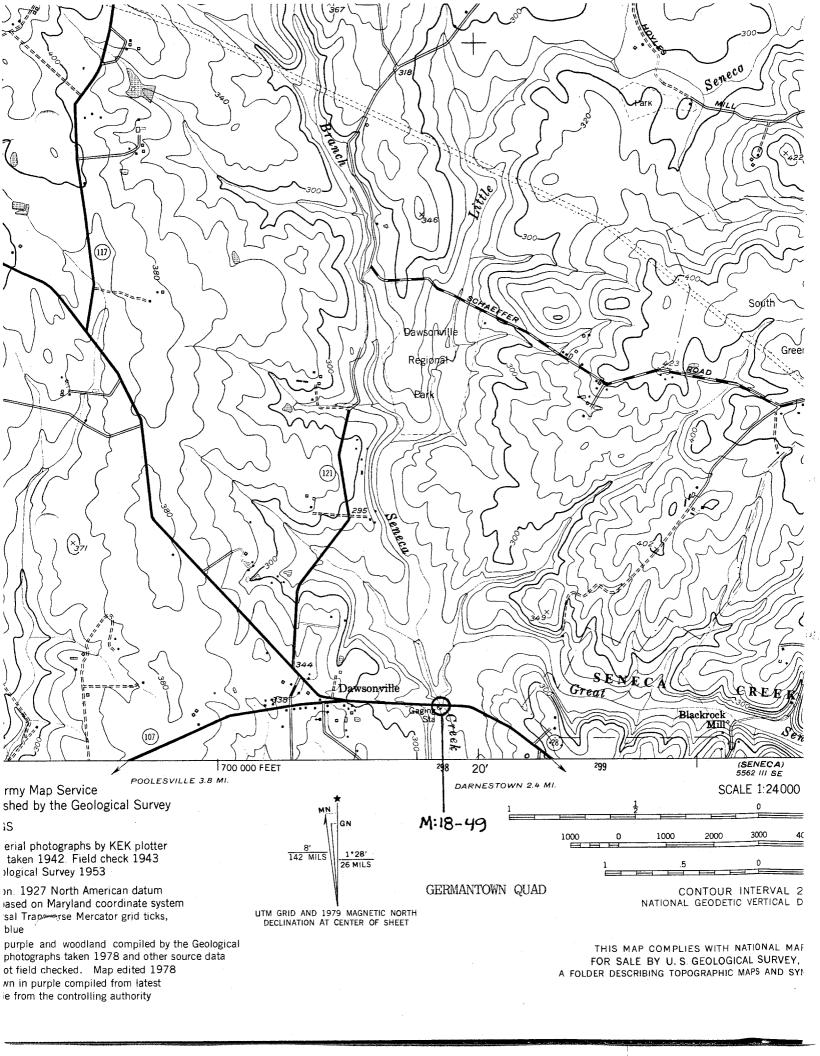
Chain of Title:

Owned by State of Maryland



United State Geological Survey Germantown Quad Montgomery County, Maryland







M:18-49
MD 28 OVER SENECA CREEK
MONTHOMERY COUNTY, MD
JOHN CALEB SCHWARTZ
T/30/98
MARYLAND SHPO
WIDE GENERAL OVERVIEW, VIEW NORTH
/ OF 14



MONTGOMERY COUNTY, MD

JOHN CALES SCHWARTZ

7/31/98

MARYLAND SHPO

WIDE GENERAL OVERVIEW OF BRIDGE, VIEW SOUTH

2 OF 14

M:18-49

MD 28 OVER SENECA CREEK



MD 28 OVER SENECA CREEK
MONTGOMERY COUNTY, MD

JOHN CALEB SCHWARTZ
7/30/98
MARYLAND SHPO
GENERAL OVERVIEW OF BRIDGE DECK, VIEW NW

3 OF 14



M:18-49
MD 28 OVER SENECA CREEK
MONTGOMERY COUNTY, MD
TOHN CALEB SCHWARTZ
7/30/98
MARYLAND SHPO
BENERAL OVERVIEW OF BRIDGE DECK, VIEW NE
4 OF 14



MONTGOMERY COUNTY, MD
JOHN CALEB SCHWARTZ
7/31/98
MARYLAND SHPO
GENERAL OVERVIEW, BRIDGE VIEW SOUTH
5 OF 14

MD 28 OVER SENECACREEK



MIB+49

MD 28 OVER SENECA CREEK

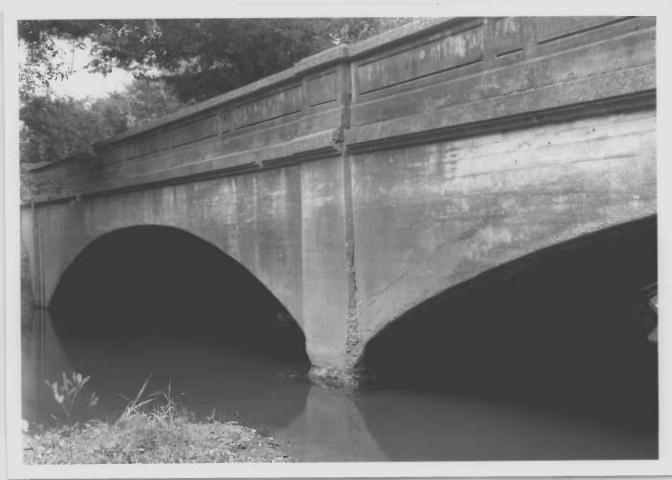
MONTGOMERY COUNTY, MD

JOHN CALEB SCHWARTZ

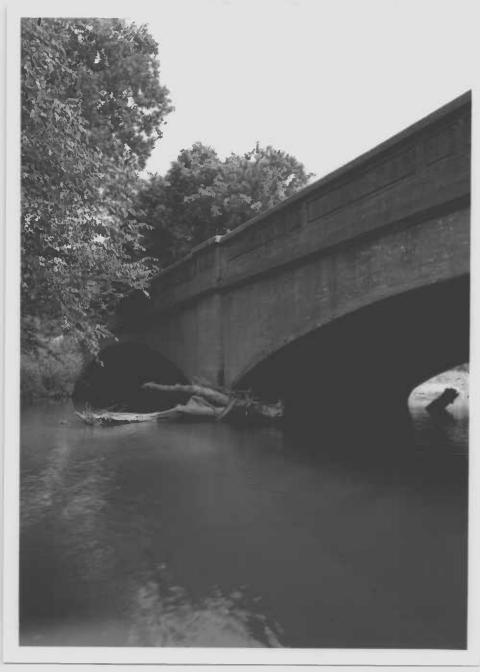
7/31/98

MARYLAND SHPO
GENERAL OVERVIEW OF BRIDGE, VEW NORTH

6 OF 14



MD 28 OVER SENECA CREEK MONTGOMERY COUNTY, MD JOHN CALEB SCHWART 2 7/30/98 MARYLAND SHPO VIEW OF ARCH, SPANG PIER, VIEWNW 7 OF 14



M:18-49

MD 28 OVER SENECA CREEK

MONTGOMERY COUNTY, MD

JOHN CALEB SCHWARTZ

7/31/98

MARYLAND SHPO

ARCH, SPAN & PIER VIEW, SE

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M:18-49
MD 28 OVER SENECA CREEK
MONTGOMERY COUNTY, MD
JOHN CALEB SCHWARTZ
1/30/98
MARYLAND SHAD
BRIDGE DECK RAIL, VIEW NW
9 OF 14



MD 28 OVER SENECH CREEK
MONTGOMERY COUNTY, MD
JOHN CALEB SCHWARTZ
7/31/98
MARYLAND SHPD
BRIDGE DECK RAIL, VIEW SE
10 OF 14



M:18-49
MD 28 OVER SENECA CREEK
MONTGOMERY COUNTY, MD
JOHN CALEB SCHWARTZ
7/30/98
MARYLAND SHPD
DETAIL VIEW OF BRIDGE RAIL DECORATION, VIEW NORTH
11 OF 14



DETAIL VIEW OF PIER ÉEMBANKMENT, VIEW NE

MD 28 OVER SENECA CASEK MONTGOMERY COUNTY, MD

JOHN CALEB SCHWARTZ

MARYLAND SHPO

7/30/98

12 OF 14



MONTGOMERY COUNTY, MD

JOHN CALEB SCHWARTZ

7/31/98

MARYLAND SHPO

END OF BRIDGE DECK RAIL, VIEW S/SW

13 OF 14

MD 28 OVER SENECA CREEK



M: 18-49
MD 28 OVER SENECA CREEK
MONTGOMERY COUNTY, MD
JOHN CALEB SCHWARTZ
7/31/98
MARYLAND SHPO
DETAIL OF CRUMBLING PIER, VIEW NW
14 OF 14